

PROJECTED	FIG. 1
BY	CLASS. SUBCLASS
DRAFTSMAN	

1/3

CCGGGGGAGGCTCTTAGGATGTTGTGCTCCGCGGGGCTCAGACGAAATCTTCTGTGAATGGAAG  
AAATGCTTCCAAGCAAACAGCCACTACCAGAACAACAGAGAAAGAGGCCAGAGCGCGAGTTCTC  
AAACCCTGATTTTCGAGGAGCCGGAGGGGGATATTGGAGAGAAGGTATTTCCAGTCACGCGCAG  
TAACAGACCAGCCAAGGACCAGGACTGGAGTTCTGTTCTACAACGGTGGAACAGTGAACGGTCT  
CCAAAGAGATGGAGTACGACGCTTACAACGACTCCGGCATCTATGATGATGAGTACTCTGATGG  
CTTTGGCTACTTTGTGGACTTGGAGGAGGCGAGTCCGTGGGAGGCCAAGGTGGCCCCGGTCTTC  
CTGGTGGTGATCTACAGCTTGGTGTGCTTCCTCGGTCTCCTAGGCAACGGCCTGGTGATTGTCA  
TCGCCACCTTCAAGATGAAGAAGACCGTGAACACTGTGTGGTTTGTCAACCTGGCTGTGGCCGA  
CTTCCTGTTCAACATCTTTTGGCCGATGCACATCACCTACGCGGCCATGGACTACCACTGGGTG  
TTCGGGAAGGCCATGTGCAAGATCAGCAACTTCTTGCTCAGCCACAACATGTACACCAGCGTCT  
TCCTGCTGACTGTCATCAGCTTTGACCGCTGCATCTCCGTGCTGCTCCCCGTCTGGTCCCAGAA  
CCACCGCAGCATCCGCCTGGCCTACATGACCTGCTCGGCCGTCTGGGTCCCTGGCTTTCTTCTTG  
AGTCCCCCGTCCCTTGTCTTCCGGGACACCGCCAACATTCATGGGAAGATAACCTGCTTCAACA  
ACTTCAGCTTGGCCCGCGCTGAGTCCCTCCCCACATCCCGCCCACTCGCAAGTAGTTTCCACAGG  
GTACAGCAGACACGTGGCGGTCACTGTCAACCGCTTCCTTTGCGGCTTCCTGATCCCCGTCTTC  
ATCATCACGGCCTGCTACCTTACCATCGTCTTCAAGCTGCAGCGCAACCGCCTGGCCAAGAACA  
AGAAGCCCTTCAAGATCATCATCACCATCATCATCACCTTCTTCTCTGCTGGTGCCCTACCA  
CACCTCTACCTGCTGGAGCTCCACCACACAGCTGTGCCAAGCTCTGTCTTCAGCTTGGGGCTA  
CCCCTGGCCACGGCCGTCGCCATCGCCAACAGCTGCATGAACCCCATCTGTACGTCTTCATGG  
GCCACGACTTCAGAAAATTCAAGGTGGCCCTCTTCTCCCGCCTGGCCAACGCCCTGAGTGAGGA  
CACAGGCCCCCTCCTCCTACCCAGTCACAGGAGCTTACCAAGATGTCGTCTTTGAATGAGAAG  
GCTTCGGTGAATGAGAAGGAGACCAGTACCCTCTGAACCTCACCTGGGAATGTCCCCCAAAGGT  
GCCACGGCCCCAGGGACGCCTAGGGACTTGTCTCCGGAAGTGGGAGACATGCCGGGAGCCTTTGG  
GAATGCTCCAACGCCCACTGAATTTTGACAAGGCGGCTCATGTTTTAAGTGGGGTTCCCAAGT  
GTGGACACTCTTCCAGTAAATGGCAGGCAAGCAACCCGAGCTTCTACAACAGGAGCAGGGGAC  
CGACTGTGACTGACTCAGAAAAGGGAGCATTTCTGAAGCCAAGACTTGAGCTGTGACCAACATA  
CAGGCCAACATACAGATGTCGCCGTGCATGCCCTGAACATGCTGCGCAGTTTTCTGTGGGTGAG  
GAAGTTACCGCAAACCCATTGCAGACCTGTTATGGCAACATGACAGTCAAACCAACAAAGCCCA  
ATACACCCCAACATCTCCAAGACCTTGACTTTGGATTTCAGAAGAACGGGGGGTGGGGGGAAC  
GAGGACCTGAGGGTTAATTTGAGCTTGGCGAAGCC (SEQ ID NO:1)

FIGURE 1

EV	CLASS	SUBCLASS
DRAFTS: 7/25		

2/3

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

CCGGGGGAGGCTCTTAGGATGTTGTGCTCCGCGGGGCTCAGACGAAATCTTCTGTGAATG  
GAAGAAATGCTTCCAAGCAAACAGCCACTACCAGAACAACAGAGAGAGGCCAGAGCGC  
GAGTTCTCAAACCCCTGATTTTCGAGGAGCCGAGGGGGATATTGGAGAGAAGGTATTTCC  
AGTCACGCGCAGTAACAGACCAGCCAAGGACCAGGACTGGAGTTCTGTCTACAACGGTG  
GAACAGTGAACGGTCTCCAAAG[AGATGGAGTACGACGCTTACAACGACTCCGGCATCTA  
TGATGATGAGTACTCTGATGGCTTTGGCTACTTTGTGGACTTGGAGGAGGCGAGTCCGTG  
GGAGGCCAAGGTGGCCCCGGTCTTCCTGGTGGTGATCTACAGCTTGGTGTGCTTCCTCGG  
TC]TCCTAGGCAACGGCCTGGTGATTGTCATCGCCACCTTCAAGATGAAGAAGACCGTGA  
ACACTGTGTGGTTTGTCAACCTGGCTGTGGCCGACTTCCTGTTCAACATCTTTTGGCGA  
TGCACATCACCTACGCGCCCATGGACTACCACTGGGTG[TCGGGAAGGCCATGTGCAAG  
ATCAGCAACTTCTTGCTCAGCCACAACATGTACACCAGCGTCTTCCTGCTGACTGTCATC  
AGCTTTGACCGCTGCATCTCCGTGCTGCTCCCGTCTGGTCCCAGAACCACCGCAGCATC  
CGCCTGGCCTACATGACCTGCTCGGCCGCTGGGTCTGGCTTTCTTCTTGAGCTCCCGG  
TCCCTTGTCTTCCGGGACACCGCCAACATTCATGGGAAGATAACCTGCTTCAACAACCTTC  
AGCTTGGCCGCGCCTGAGTCTTCCACATCCCGCCCACTCGCAAGTAGTTTCCACAGGG  
TACAGCAGACACGTGGCGGTCACTGTACCCGCTTCCTTTGCGGCTTCCTGATCCCCGTC  
TTCATCATCACGGCCTGCTACCTTACCATCGTCTTCAAGCTGCAGCGCAACCGCCTGGCC  
AAGAACAAGAAGCCCTTCAAGATCATCATCACCATCATCATCACCCTTCTTCCCTCTGCTGG  
TGCCCCTACCACACCTCTACCTGCTGGAGCTCCACCACACAGCTGTGCCAAGCTCTGTC  
TTCAGCTTGGGCTACCCCTGGCCACGGCCGTCGCCATCGCCAACAGCTGCATGAACCCC  
ATTCTGTACGCTTTCATGGGCCACGACTTCAGAAAATTCAGGTGGCCCTCTTCTCCCGC  
CTGGCCAACGCCCTGAGTGAGGACACAGGCCC]CTCCTCTACCCAGTCACAGGAGCTT  
CACCAGATGTCGCTTTGAATGAGAAGGCTTCGGTGAATGAGAAGGAGACCAGTACCCT  
CTGAACCTCACCTGGGAATGTCCCCAAAGGTGCCACGGCCAGGGACGCCTAGGGACTT  
GTCTCCGGAAGTGGGAGACATGCCGGGAGCCTTTGGGAATGCTCCAACGCCCACTGAATT  
TTGCACAAGCGGCTCATGTTTTAAGTGGGTTCCCAAGTGTGGACACTCTTCCAGTAAA  
ATGGCAGGCAAGCAACCCGAGCTTCTACAACAGGAGCAGGGGACCGACTGTGACTGACTC  
AGAAAAGGGAGCATTTCTGAAGCCAAGACTTGAGCTGTGACCAACATACAGGCCAACATA  
CACGATGTGCCGCTGCATGCCCTGAACATGCTGCCGAGTTTTCGTGGGTGAGGAAGTTAC  
CGCAAACCCATTCAGACCTGTTATGGCAACATGACAGTCAAACCAACAAAGCCCAATAC  
ACCCCAACATCTTCCAAGACCTTGACTTTGGATTTCAGAAGAACGGGGGTGGGGGAAC  
GAGGACCTGAGGTTAATTTTCAGCTTGGCGAAGCC

FIGURE 2A

PROJECT NO.	C.C.F.B.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

3/3

# Gene Sequence Structure \*

422 bp

Sequence Deleted

576 bp

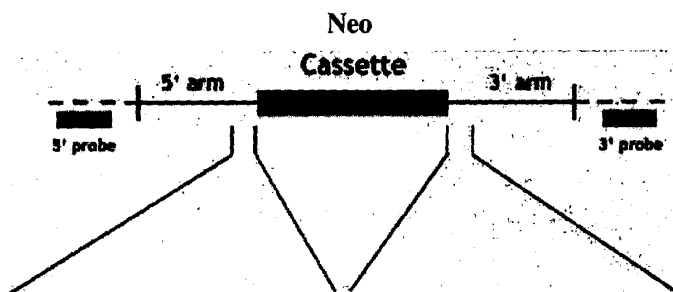
Size of full-length  
cDNA: 1892 bp



## Targeting Vector\* (genomic sequence)

Construct Number: 993

Arm Length:  
5': 2.3 kb  
3': 1.9 kb



———— Targeting Vector  
----- Endogenous Locus

\* Not drawn to scale

5' > CCACAGAGGTCCTCAGCCTGT  
GACCCGTGTCTTCCCTCACAGAGAT  
GGAGTACGACGCTTACAACGACTC  
CGGCATCTATGATGATGAGTACTC  
TGATGGCTTTGGCTACTTTGTGGA  
CTTGGAGGAGGCGAGTCCGTGGGA  
GGCCAAGGTGGCCCCGGTCTTCCT  
GGTGGTGATCTACAGCTTGGTGTG  
CTTCCTCGGTC<3'  
(SEQ ID NO:2)

5' > TTCGGAAGGCCATGTGCAAG  
ATCAGCAACTTCTTGCTCAGCCAC  
AACATGTACACCAGCGTCTTCCTG  
CTGACTGTCATCAGCTTTGACCGC  
TGCATCTCCGTGCTGCTCCCCGTC  
TGGTCCCAGAACCACCGCAGCATC  
CGCCTGGCCTACATGACCTGCTCG  
GCCGTCTGGGTCTTGGCTTTCTTC  
TTGAGCTCCCC<3'  
(SEQ ID NO:3)

FIGURE 2B